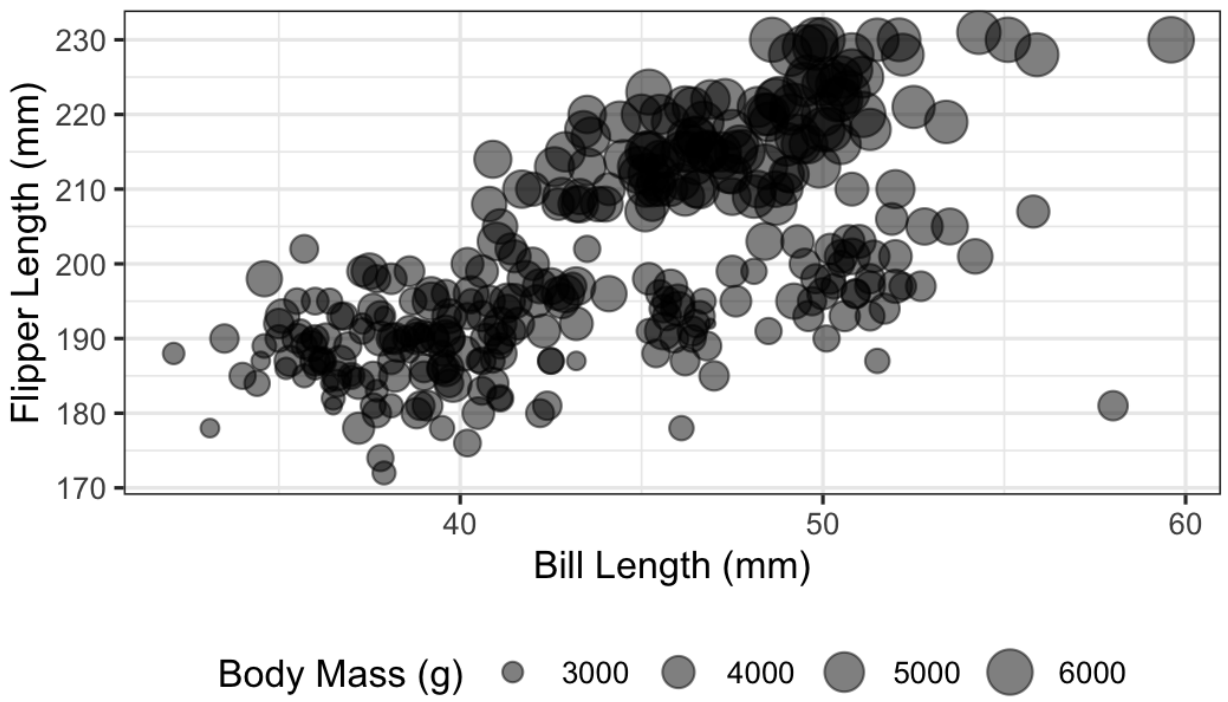
Bubble Plot

```
ggplot(penguins_complete,
       aes(x = bill_length_mm,
           y = flipper_length_mm,
           size = body_mass_g
           )) +
  geom_point(alpha = 0.5) +
  labs(x = "Bill Length (mm)",
       y = "Flipper Length (mm)") +
  scale_size(name = "Body Mass (g)") +
  #scale_radius(name = "Body Mass (g)") +
  theme(legend.position = "bottom")
```

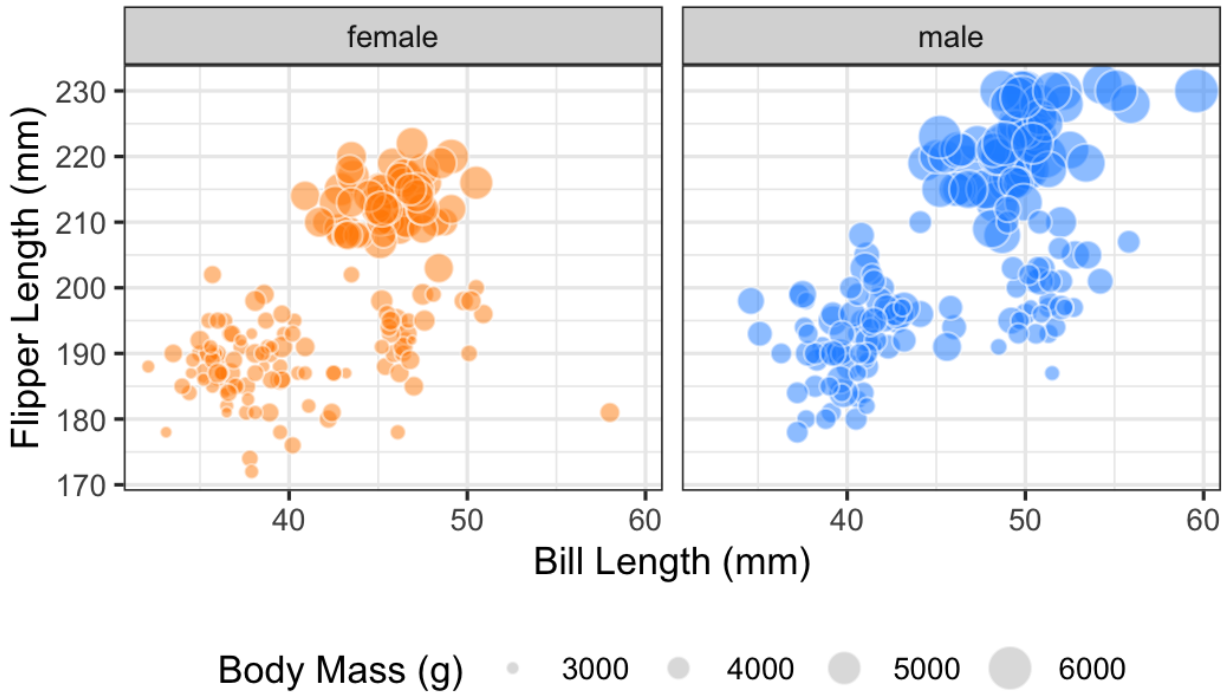
*alpha = 0.5 makes the points transparent and bubbles



Multi-faceted Bubble Plot

```
ggplot(penguins_complete, aes(x = bill_length_mm,
                      y = flipper_length_mm,
                      size = body_mass_g,
                      fill = sex
                      )) +
  geom_point(alpha = 0.5, pch = 21, color = "white") +
  facet_wrap(~sex)+
  scale_fill_manual(values = c("darkorange", "dodgerblue"), guid

  scale_radius(name = "Body Mass (g)",
               guide = guide_legend(override.aes = list(fill = "
   labs(x = "Bill Length (mm)",
       y = "Flipper Length (mm)") +
  theme(legend.position = "bottom")
```

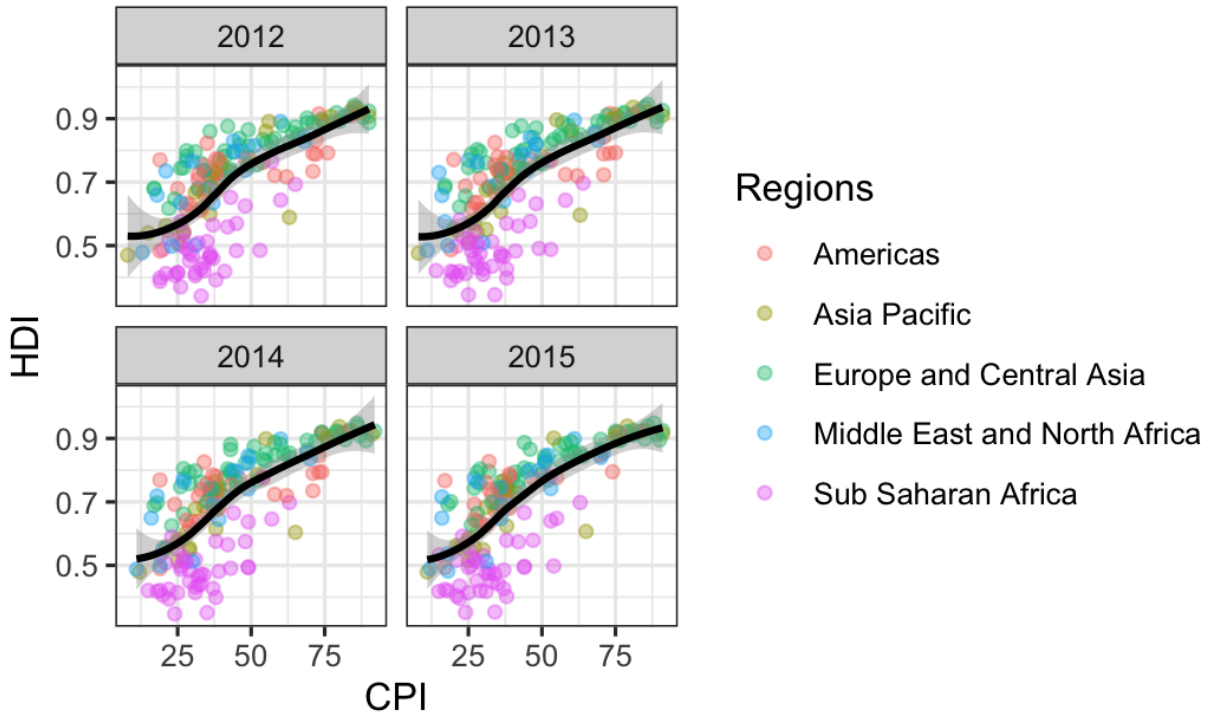


color=white is color of the outline of each point

facet_wrap(~sex) it divides the data into 2 main categories (female and male)

Multiple Plots

```
#corruption_2013 <- corruption[which(corruption$year==2013),]
ggplot(data = corruption,
       mapping = aes(
         x = cpi,
         y = hdi
       )) + geom_point(alpha=0.4, aes(color=region))
       + geom_smooth(color="black")+
       labs(x="CPI", y ="HDI", color="Regions") + facet_wrap(~ye
```


2012
2013
2014
2015
HDI
0.9
0.7
0.5
25
50
75
CPI
Regions
Americas
Asia Pacific
Europe and Central Asia
Middle East and North Africa
Sub Saharan Africa